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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-02-03** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg, Min)	268.8	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-02-03** **Date: 31-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-08-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-08-02-03 **Date: 05-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-08-02-03 **Date: 05-08-17**

Sample ID No : 2017-08-02-03/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.3	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-02-03** **Date: 05-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	477	477	9.5	90.5	90-100
3	10 mm	2738	3215	64.3	35.7	25-55
4	4.75 mm	1293	4508	90.2	9.8	0-10
5	Pan	492	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-08-02-03 **Date: 05-08-17**

Sample ID No : 2017-08-02-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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TEST REPORT OF FINE AGGREGATE

Date: 05-08-17

Lab ID	:	CP-2017-08-02-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	02-08-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	47	47	4.7	95.3	90-100	90-100	90-100	95-100
3	2.36 mm	166	213	21.3	78.7	60-95	75-100	85-100	95-100
4	1.18 mm	178	391	39.1	60.9	30-70	55-90	75-100	90-100
5	600 micron	251	642	64.2	35.8	15-34	35-59	60-79	80-100
6	300 micron	208	850	85.0	15.0	5-20	8-30	12-40	15-50
7	150 micron	71	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-02-03** **Date: 05-08-17**

Sample ID No : 2017-08-02-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.98	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-08-02-03** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-08-17

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.394	545	660	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.613	565	680	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-05-17

Lab ID	:	CP-2017-08-02-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no 02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2017-08-02-03/05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.49	1.278	4478	78.6	17.6	16.3	20.4
2	Cover Slab-2	75.48	100.52	1.223	4474	79.5	17.8	16.5	20.7
3	Cover Slab-3	75.51	100.53	1.255	4477	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-14-04** **Date: 15/08/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-04/01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/08/2017	15/08/2017	150.20 X 150.22 X 150.28	22563	8.246	408.4	18.1	17.5
2	M20 Concrete	M20	08/08/2017	15/08/2017	150.21 X 150.24 X 150.29	22568	8.299	381.4	16.9	
3	M20 Concrete	M20	08/08/2017	15/08/2017	150.24 X 150.18 X 150.22	22563	8.265	392.6	17.4	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-14-04** **Date: 05/09/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-04/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/08/2017	05/09/2017	150.18 X 150.17 X 150.15	22553	8.289	521.0	23.1	22.5
2	M20 Concrete	M20	08/08/2017	05/09/2017	150.22 X 150.24 X 150.26	22569	8.288	494.3	21.9	
3	M20 Concrete	M20	08/08/2017	05/09/2017	150.22 X 150.10 X 150.13	22548	8.256	505.1	22.4	

Note:
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Asst. Executive Engineer
Yelah... Sub. Divison
(... Ynk. Zn)
Yelahanka, Bangalore

CIVIL Pro. Sig. Date. BANGALORE

FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
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Asst. Executive Engineer

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-14-05** **Date: 16/08/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-05/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	16/08/2017	150.82 X 150.51 X 150.19	22700	8.132	381.4	16.8	17.5
2	Drain Concrete	M20	09/08/2017	16/08/2017	151.04 X 150.23 X 150.11	22691	8.164	390.3	17.2	
3	Drain Concrete	M20	09/08/2017	16/08/2017	151.92 X 150.16 X 150.72	22812	8.206	419.7	18.4	

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Yelahanka Sub. Divison
(BBMP Ynk. Zn)
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/09/2017

Lab ID	:	CP-2017-08-14-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-05/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	06/09/2017	149.11 X 151.98 X 150.66	22662	8.182	509.9	22.5	22.1
2	Drain Concrete	M20	09/08/2017	06/09/2017	150.55 X 150.29 X 149.66	22626	8.176	493.3	21.8	
3	Drain Concrete	M20	09/08/2017	06/09/2017	150.76 X 150.81 X 150.26	22736	8.154	497.9	21.9	

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Date: 16/08/2017

Lab ID	:	CP-2017-08-14-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-05/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	16/08/2017	150.19 X 150.56 X 150.67	22613	8.235	398.0	17.6	17.1
2	Drain Concrete	M20	09/08/2017	16/08/2017	150.44 X 150.22 X 150.36	22599	8.254	381.7	16.9	
3	Drain Concrete	M20	09/08/2017	16/08/2017	150.44 X 150.22 X 150.11	22599	8.298	379.7	16.8	

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Date: 06/09/2017

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Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village in Ward no.02 at Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, N0.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-05/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	06/09/2017	150.11 X 150.65 X 150.99	22614	8.288	529.2	23.4	22.9
2	Drain Concrete	M20	09/08/2017	06/09/2017	150.23 X 150.22 X 150.72	22568	8.262	503.3	22.3	
3	Drain Concrete	M20	09/08/2017	06/09/2017	150.42 X 150.18 X 150.45	22590	8.232	517.3	22.9	

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